

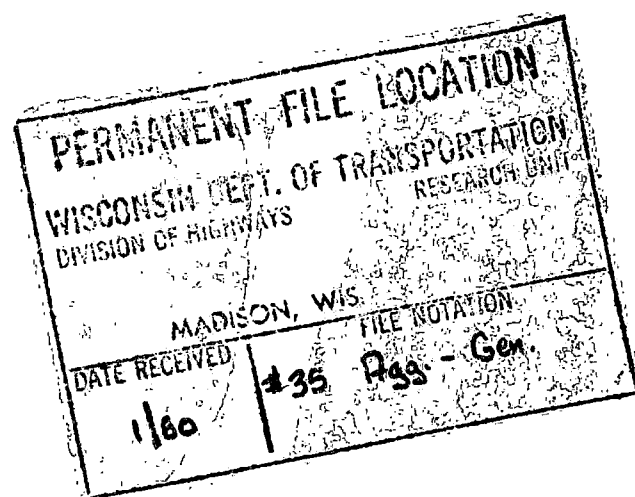
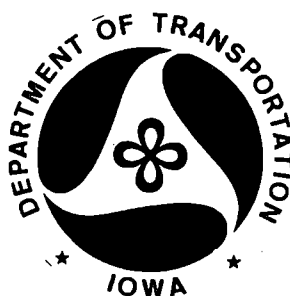
JANUARY 1979

MATLS. I.M. T-203

79-2

GENERAL AGGREGATE SOURCE INFORMATION

1979



DIVISION OF HIGHWAYS
OFFICE OF MATERIALS

January 1979
Supersedes Jan. 1978



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Highway Division

OFFICE OF MATERIALS — INSTRUCTIONAL MEMORANDUM

GENERAL AGGREGATE SOURCE INFORMATION

GENERAL

Only those aggregate sources which have been sampled or tested within the last ten years are listed. This listing additionally ranks sources in accordance with a skid resistance classification as defined herein for aggregates used in asphalt construction. The rankings are based on the ledges used in the past for asphalt aggregates. Upon request, new sources or different combinations of beds within an existing source will be evaluated as to their skid resistance classification. This ranking refers only to the skid resistant properties and does not waive the normal quality requirements for the particular type of aggregate indicated in the contract documents.

One or more skid classification types may be specified on asphalt surface courses.

PORTLAND CEMENT CONCRETE AGGREGATES

Aggregates shall be produced from sources approved in accordance with the requirements of Materials I.M. Numbers 410, 415, and 417.

All aggregates produced and inspected for intended use in contracts under Iowa Department of Transportation Specifications shall be stored in identifiable stockpiles unless they are being delivered as produced.

Scalping of some portion of the coarser fraction may be approved by the engineer. The engineer may consider the results of laboratory freezing and thawing tests, behavior in concrete in which the aggregate or petrological similar aggregates have been used, physical, chemical and petrographic analyses, coating characteristics or other characteristics in making this determination.

SKID RESISTANCE CLASSIFICATION OF AGGREGATE

When Type 1 through Type 5 skid resistant aggregates are specified for construction, a source approval including bed limitations, is required for each project. Tentative bed limitations are shown in the listing.

Aggregates have been classified into five functional types in accordance with their characteristics as related to skid resistance. One or more of the four higher type skid resistant aggregates may be specified for use in pavement surface courses. If a type is not specified in the contract documents, Type 5 or better will be acceptable.

January 1979

The five skid resistant types are listed and defined in order of descending quality as follows.

Type 1

Aggregates which are generally a heterogeneous combination of minerals with coarse grained microstructure of very hard particles (Generally a Mohs Hardness range of 7 to 9) bonded together by a slightly softer matrix.

These aggregates are typified by those developed for and used by the grinding-wheel industry such as calcined bauxite (synthetic) and emery (natural). They normally are not available from Iowa sources. Due to the high cost, these aggregates would be specified only for extremely critical situations.

Type 2

Natural aggregates in this class are crushed quartzite and granites. The mineral grains in these materials generally have a Mohs hardness range of 5 to 7.

Synthetic aggregates in this class are some aircooled steel furnace slags and others with similar characteristics.

Type 3

Natural aggregates in this class are crushed traprocks, crushed gravels or those crushed from dolomitic ledges in which 80 percent or more of the grains have diameters of 120 microns or larger. The mineral grains in the approved dolomitic ledges generally have a Mohs hardness range of 3.5 to 4. The crushed gravels shall not contain more than 30 percent of carbonate stone as defined in the Type 5 classification.

Synthetic aggregates in this class are the expanded shales with a Los Angeles abrasion loss less than 35 percent.

Type 4

Aggregates crushed from dolomitic or limestone ledges in which 80 percent of the grains are 30 microns or larger. The mineral grains in the approved ledges for this classification generally have a Mohs hardness range of 3 to 4. The gravels shall not contain more than 60 percent of carbonate stone as defined in the Type 5 classification.

Type 5

Aggregates crushed from lithographic and sublithographic limestone ledges and natural gravels containing more than 60 percent lithographic and sublithographic limestone particles. Grain sizes will predominately be below 30 microns for the crushed stone.

LISTING

The following sheet explains the code used in the listing.

The bed numbers shown for concrete aggregate are those on the formal approval letter for the source. The beds shown for asphalt sources are those which have been used or have a potential for use and are of the designated skid resistance type. The beds listed may not include all of those normally worked.

Asphaltic Concrete - Type B

Asphaltic Concrete - Type A

Portland Cement Concrete - Fine Aggregate

Portland Cement Concrete - Coarse Aggregate

Skid resistance classification for asphalt use

Concrete Durability Class

Class 2 sources with a bar over the numeral ($\bar{2}$) are approved for bridge deck repair aggregate.

A (V) indicates Class 5 aggregate.

Specific Gravity

Denotes that the source has the potential to make the kind of aggregate designated.

CEDAR COUNTY

Alpha Cr. Stone
Wendling Quarries
Wendling Quarries
Alpha Cr. Stone
Alpha Cr. Stone
B. L. Anderson
Martin Marietta

CRUSHED STONE

Hunt
Schneckloth
Schneckloth
McGuire
McGuire
Lime City
Peden

LOCATION

SW 10-81-04
NW 04-81-01
NW 04-81-01
SE 14-80-03
SE 14-80-03
NE 16-79-02
NE 09-79-03

Wendling Quarries
Wendling Quarries

SAND & GRAVEL

S. Rochester
Massillon

NW 12-79-03
SE 11-82-01

CERRO GORDO COUNTY

P & M Stone
P & M Stone
Weaver Const.
Weaver Const.
Welp & McCarten
Welp & McCarten
Greene Ls. Co.
Greene Ls. Co.
Weaver Const.
Welp & McCarten
Welp & McCarten

CRUSHED STONE

Wepking
Wepking
Quimby
Quimby
Kohler
Kohler
McEachran
McEachran
Lillybridge
Swaledale
Rock Falls

NW 15-97-21
NW 15-97-21
NW 27-97-20
NW 27-97-20
NE 19-96-19
NE 19-96-19
NW 20-96-19
NW 20-96-19
SW 26-94-20
SW 10-94-21
NE 16-97-19

SpGr

2
2.66

2.72

2
2

2

2

2.65

2.77

2.77

2.77

2.77

2

2

2

2

X

X

4

4

4

5

X

4

5

4

5

4

5

4

4

4

5

4

4

5

4

5

5

5

1

1

1-3

1-4

4

2

4-5

2-5

4-10

8-10

1-8

4-8

1

1

1-3

1-4

4

2

4-5

2-5

4-10

8-10

1-8

4-8

**WITH
RECENT ACTIVITY**

ADAIR COUNTY		CRUSHED STONE	LOCATION	SpGr						
Schildberg Const.	Menlo		SE 17-77-31	2.65	1				15	
Schildberg Const.	Menlo		SE 17-77-31					5	5	15-16
Schildberg Const.	Jefferson		NW 17-77-31						5	20,25
Schildberg Const.	Howe		SW 01-76-31						5	25
	SAND & GRAVEL									
Schildberg Const.	Jefferson		NW 17-77-31				4	4		
ADAMS COUNTY		CRUSHED STONE								
Schildberg Const.	Mt. Etna		14, 23-73-34					4	11-13	
Schildberg Const.	Corning		03, 10-71-34					4	3-5	
	SAND & GRAVEL									
Schildberg Const.	Mt. Etna		NW 23-73-34	2.65		X	4	4		
ALLAMAKEE COUNTY		CRUSHED STONE								
Cooney Const.	Wexford		NE 36-98-03	2.70	2				1-6	
Cooney Const.	Wexford		NE 36-98-03				3	3	1-5	
Bruening Rock Prod.	Christofferson		E½ 17-96-06	2.62	2		5	5	1-4	
Cooney Const.	Morken		SW 17-100-6					X		
Cooney Const.	McCabe		NE 06-97-05					X		
Roverud Const.	Siegmiller		SE 17-100-6					X		
Cooney Const.	Troendle		SE 03-98-05					X		
Kraemer & Son	Boonies		SW 02-99-06				3	3		
Bruening Rock Prod.	Carlson		NW 17-96-05					X		
Roverud Const.	Swenson		SW 17-96-05					X		
Cooney Const.	Miller		NW 17-96-05					X		
Pavlovec Rock Co.	Livingood		SW 07-96-6					X		
Cooney Const.	Brazel		SW 16-97-03					X		
Bresnahahn Const.	Tierney		NE 25-99-06				X	X		
Cooney Const.	Johnson		SW 35-99-04				3	3		
Roverud Const.	Wild		SW 2-99-05					X		
	Mooney		SW 32-99-03					X		
Roverud Const.	Wilde		SE 13-99-05				4	4	1-5	
Roverud Const.	Swenson		SE 19-96-05					X		
Cooney Const.	Rheim		SE 07-100-04		X		X	X		
Cooney Const.			SE 21-99-04				X	X		
Bresnahan Const.	Churchtown		SE 29-99-04				4	4		
	SAND & GRAVEL									
Carlson Matls.	Harpers Ferry		NE 13-97-03	2.67	2		3	3		
Carlson Matls.	Harpers Ferry		NE 13-97-03	2.67		X				
Cooney Const.	New Albin		SE 16-100-4				4	4		
Cooney Const.	Boonies		SW 02-99-06				4	4		
APPANOOSE COUNTY		CRUSHED STONE								
Carter Waters	Quarry		NW 23-69-18		2		3	3		
	(Light-weight Agg.)									
L & W Const. Co.	Lemley West No. 3		E½ 19-70-19				4	4	1-3	
L & W Const. Co.	Lemley West No. 3		E½ 19-70-19	2.70	1		5	5	2-3	
Mott Quarries, Inc.	Vanderlinden/		NW 31-70-19	2.69	1		5	5	1-3	
	Confidence									
Mott Quarries, Inc.	Farnsworth		NW 27-68-18					5		
Mott Quarries, Inc.	McClury		NW 04-69-19	2.70	1		4	4	1-3	
L & W Const. Co.	No. 2 Quarry		SW 12-69-18					5		
Mott Quarries, Inc.	Swan		25-69-19					X		
L & W Const. Co.	Lemley East		35-70-19	2.68	1		5	5	1-3	
	SAND & GRAVEL									
Sargent Quarries	Cincinnati		NE 13-67-19	2.67		X	4	4		

AUDUBON COUNTY

G. A. Finley
G. A. Finley

SAND & GRAVEL

Brayton
Brayton

LOCATION

SW 25-78-36
SW 25-78-36

SpGr

2.68
2.63

BENTON COUNTY

Martin Marietta
B. L. Anderson
B. L. Anderson
B. L. Anderson
B. L. Anderson
B. L. Anderson
B. L. Anderson

CRUSHED STONE

Smith
Garrison 'A'
Garrison 'B'
Ballheim
Mt. Auburn
Jabens
Milroy/Vinton

NW 19-86-12
SE 28-85-11
NE 33-85-11
NE 17-86-12
NE 33-86-11
SW 07-85-11
S¼ 10-85-10

2.65

2.67

2.67

SAND & GRAVEL

B. L. Anderson
Coots S&G

Milroy/Vinton
Mt. Auburn

S¼ 10-85-10
SW 31-86-10

2.65

2.65

BLACK HAWK COUNTY

Welp & McCarten
Welp & McCarten
Martin Marietta
Martin Marietta
Martin Marietta
Martin Marietta
Welp & McCarten

CRUSHED STONE

Pint's
Pint's
Waterloo South
Waterloo South
Yokum
Morgan
Fox

SW 36-89-12
SW 36-89-12
NW 18-87-12
NW 18-87-12
04, 05-90-14
NE 15-89-12
SW 13-88-11

2.69

2.66

2.59

SAND & GRAVEL

Assink Bros.
Martin Marietta
Aspro Inc.
Hawkeye Matls.
Bagenstos & Son
Joe Zien
Maudlin

Assink
Cedar Bend
Waterloo
Livingston
Bagenstos
Zien
Dobbs

SE 01-89-14
SW 09-89-13
NW 01-88-13
E½ 16-88-12
19-87-11
NW 23-87-12
NE 14-90-14

2.66

2.66

2.65

2.65

2.65

2.66

BOONE COUNTY

Hallett Const. Co.
Hallett Const. Co.
Hallett Const. Co.
Maudlin
Hallet Const.
Hallett Const.
Hallett Const.

SAND & GRAVEL

Sturtz
Sturtz
Gast
Laube
Ahrens
Jenkins
Jenkins

SE 36-84-27
SE 36-84-27
SW 27-82-26
36-85-27
SE 12-83-27
NW 36-84-27
NW 36-84-27

2.73

2.66

2.71

BREMER COUNTY

Martin Marietta
Niemann Const.

CRUSHED STONE

Frederika
Denver

NE 12-93-13
NE 29-91-13

SAND & GRAVEL

Martin Marietta
Niemann Const.
Martin Marietta

Tripoli
Nolte
Harms

NE 28-93-12
SE 31-92-11
NE 19-93-12

2.65

BUCHANAN COUNTY

Niemann Const.
Niemann Const.
Niemann Const.
Niemann Const.
Niemann Const.
Niemann Const.
Niemann
Niemann
Hewitt Bros.
Hewitt Bros.
Hewitt Bros.

CRUSHED STONE

Weston/Lamont
Weston/Lamont
Bloom/Jesup
Bloom/Jesup
Levendusky
Mishler
Pattison
Independance
Oelwein No. 1
Oelwein No. 2
Aurora

NW 14-90-07
NW 14-90-07
SE 32-89-10
SW 28-90-10
NW 02-90-09
NW 11-90-09
NW 14-88-09
SW 02-90-09
SE 03-90-09
NE 17-90-07

2.70

2.63

2.67

P C C	C A	P C C	F A	A C 'A'	A C 'B'	B E D S
2		X		4	4	
2				4	4	23-26
2				4	4	6-16
2				4	4	6-16
					X	
					X	
				4	4	10-12
					4	
		X		4	4	
		X		4	4	
1						20-23
				4	4	18-27
1				4	4	18-23
					5	12-21
					5	
2				4	4	1
		X		4	4	
		X		4	4	
		X		4	4	
		X		4	4	
		X		4	4	
		X		4	4	
		X		4	4	
2				3	3	
		X				
				4	4	
				4	4	
				4	4	
2		X		3	3	
					5	
				5	5	5-10
		X		4	4	
				4	4	
				4	4	
2						1-6
				4	4	1-7
1						2-5
				4	4	1-7
					5	
				4	4	4-6
2				4	4	4
					5	
				5	5	1-12
				4	4	13-16
				4	4	1-5

				P C C	P C C	A C 'A'	A C 'B'	B E D S
BUCHANAN COUNTY cont.	CRUSHED STONE	LOCATION	SpGr					
O'Brian	Archie Miller	NW 25-88-09					5	
Niemann Const.	Brooks	NW 02-88-09					5	
Niemann Const.	Rasmussen No. 2	SE 21-88-08					5	
Niemann Const.	Brandon	SE 27-87-10					5	
Niemann Const.	Hertzberger	NE 36-87-10					5	
Niemann Const.	So. Aurora	NW 19-90-07	2.69	2			4	1-3
Niemann Const.	Selis	NW 25-88-09					5	
	SAND & GRAVEL							
Maudlin Const.	Cook	SE 21-88-07				4	4	
Niemann Const.	Ward Farm	SE 10-90-07	2.65		X	4	4	
Quality R.M.	Quality R.M.	SE 19-88-09	2.64		X	4	4	
Niemann Const.	Burns	NE 32-88-08	2.64		X	4	4	
Niemann Const.	Huffman	SE 02-89-08	2.65		X	4	4	
Niemann Const.	Sullivan	SW 25-89-07	2.65		X	4	4	
Maudlin Const.	Hullerman	SE 26-90-07				4	4	
BUENA VISTA COUNTY	SAND & GRAVEL							
Rohlin Const.	Rohlin	SW 02-93-38				4	4	
Maudlin Const.	Railroad	NE 03-93-37				4	4	
Maudlin Const.	Linn Grove	NW 25-93-38				4	4	
Maudlin Const.	Newell	NW 01-90-36				4	4	
Maudlin Const.	Sioux Rapids	05-93-36				4	4	
Maudlin Const.	Near Marathon	SE 19-93-35				4	4	
BUTLER COUNTY	CRUSHED STONE							
Greene Ls. Co.	Bruns	SE 21-91-18					5	
Greene Ls. Co.	Lubben	NW 25-93-17					5	
Greene Ls. Co.	Witte	SE 11-92-18					5	
Greene Ls. Co.	Florry	Sen. 08-93-17					5	
Niemann Const.	Engle	NE 16-92-15					5	
Niemann Const.	Clarksville	NE 16-92-15					5	
Niemann Const.	Oltmann	SE 8-91-16					5	
	SAND & GRAVEL							
Parkersburg Rdy Mix	Clarksville	NW 01-92-16	2.67	2		4	4	
Parkersburg Rdy Mix	Clarksville	NW 01-92-16	2.65		X			
Waverly Gravel	Brooks	NE 02-91-15	2.66	2		4	4	
Waverly Gravel	Brooks	NE 02-91-15	2.66		X			
Schroeder Conc.	Greene	NE 12-93-17	2.65		X	4	4	
Greene Ls. Co.	Austinville	NW 23-90-18				4	4	
Greene Ls. Co.	Hurds	N/4 02-92-16				4	4	
CARROLL COUNTY	SAND & GRAVEL							
W. T. McClue	Lanesboro	SE 07-85-33	2.70	2		4	4	
W. T. McClue	Lanesboro	SE 07-85-33	2.68		X			
W. T. McClue	Lanesboro	NW 21-85-33	2.70	2		4	4	
W. T. McClue	Lanesboro	SE 21-85-33	2.67		X			
Maudlin Const.	Pound	SE 18-85-33				4	4	
Carroll S&G	Carroll	NW 22-84-34	2.66	2	X	4	4	
CASS COUNTY	CRUSHED STONE							
Schildberg Const.	Atlantic	NE 06-76-36					4	25
Schildberg Const.	Lewis	SE 17-75-37					4	10-11
	SAND & GRAVEL							
Schildberg Const.	Lyman	NW 33-75-36				4	4	
G. A. Finley	Atlantic	NE 06-76-36	2.66	2		4	4	
G. A. Finley	Atlantic	NE 06-76-36	2.69		X			

			SpGr	P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
CEDAR COUNTY								
Alpha Cr. Stone	Crushed Stone	Hunt		2		4	4	1
Wendling Quarries		Schneckloth	2.66	2				1
Wendling Quarries		Schneckloth				4	4	1-3
Alpha Cr. Stone		McGuire	2.72	2				1-4
Alpha Cr. Stone		McGuire				4	4	4
B. L. Anderson		Lime City		2		4	4	2
Martin Marietta		Peden				5	5	
	SAND & GRAVEL							
Wendling Quarries		S. Rochester	2.65		X	4	4	
Wendling Quarries		Massillon					4	
CERRO GORDO COUNTY								
P & M Stone	Crushed Stone	Wepking	2.77	2				4-5
P & M Stone		Wepking				4	4	2-5
Weaver Const.		Quimby	2.77	2		5	5	4-10
Weaver Const.		Quimby				4	4	8-10
Welp & McCarten		Kohler	2.77	2		5	5	1-8
Welp & McCarten		Kohler				4	4	4-8
Greene Ls. Co.		McEachran	2.77	2		5	5	1-8
Greene Ls. Co.		McEachran				4	4	4-8
Weaver Const.		Lillybridge		X		5	5	
Welp & McCarten		Swaledale					5	
Welp & McCarten		Rock Falls					5	
	SAND & GRAVEL							
Weaver Const.		Sugar Beet	2.69	2		4	4	
Weaver Const.		Sugar Beet	2.67		X			
Andrews Prestressed		Clear Lake	2.68	2		4	4	
Andrews Prestressed		Clear Lake	2.66		X			
Martin Marietta		Nelson/Forbes				4	4	
Welp & McCarten		Swaledale					4	
CHEROKEE COUNTY								
Hallett Const.	Sand & Gravel	Town	2.68	2		3	3	
Hallett Const.		Town	2.68		X			
Hallett Const.		South	2.70	2		3	3	
			2.68		X			
Hallett Const.		Shea		X	X	3	3	
Hallett Const.		Paul Meylor		X	X	3	3	
Faber & Sons		Killiam				4	4	
Maudlin Const.		Larabee				4	4	
Maudlin Const.		Washta				3	3	
Maudlin Const.		Quimby				3	3	
Maudlin Const.		East of Quimby				3	3	
S & N Sand Co.		Galva	2.65		X	4	4	
Walker			2.67		X	3	3	
CHICKASAW COUNTY								
Martin Marietta	Crushed Stone	Nashua	2.59	2		4	4	9-10
Hewitt Bros.		Mahoney					5	
Hewitt Bros.		Hunt		X		4	4	9-10
Martin Marietta		Boice					5	
	SAND & GRAVEL							
Hewitt Bros.		Stull				4	4	
Hewitt Bros.		Hunt				4	4	
Blazek		Blazek	2.66		X	4	4	
Pavlovec Rock Co.		Busta	2.65		X	4	4	
Nashua S & G		Nashua	2.66		X	4	4	

CLARKE COUNTY		CRUSHED STONE	LOCATION	SpGr					
Martin Marietta		Osceola	SW 12-72-26					5	
Sargent Quarries		Osceola	NW 12-72-26					5	
Sargent Quarries		Osceola	NW 12-72-26					4	1
CLAY COUNTY		SAND & GRAVEL							
Conc. Sand & Matls.		Stolley	NW 11-96-37	2.70	2		4	4	
Conc. Sand & Matls.		Stolley	NW 11-96-37	2.65		X			
Hummel S & G		Eckley	NW 16-95-35	2.70	2		4	4	
Hummel S & G		Eckley	NW 16-95-35	2.66		X			
Maudlin Const.		Everly	SW 31-97-38				4	4	
Maudlin Const.		Scharnburg	NE 11-96-38				4	4	
Maudlin Const.		Stellish	NW 20-96-35				4	4	
Hallett Const.		Spencer	SE 15-96-36	2.67	2		4	4	
Hallett Const.		Spencer	SE 15-96-36	2.66		X			
Maudlin Const.		Cornell	SW 27-94-36				4	4	
CLAYTON COUNTY		CRUSHED STONE							
Kuhlman Const.		Twin Rocks/ Schrader	NW 14-94-05	2.72	1		4	4	3-11
Roverud Const.		Bente/Elkader	SW 12-93-05	2.66	1		4	4	4-9
Cooney Const.		Marquette	NW 16-95-03		X		3	3	
Kuhlman Const.		Anderegg	NW 32-92-02	2.67	1		4	4	1-8
Kuhlman Const.		Osterdock	SE 02-91-03	2.67	1				2-6
Kuhlman Const.		Osterdock	SE 02-91-03				4	4	1-8
Kuhlman Const.		Schmidt	NE 33-91-01	2.66	2				4-6
Kuhlman Const.		Schmidt	NE 33-91-01				4	4	2-6
Roverud Const.		Blume	NE 09-93-03	2.70	2				
Roverud Const.		Blume	NE 09-93-03				4	4	1-12
Kuhlman Const.		Gisleson	NW 06-95-04					4	
Roverud Const.		Zurcher	SE 01-94-05					4	
Kuhlman Const.		Mueller	NE 30-94-03		2		4	4	1-8
Kuhlman Const.		Anderson	NE 13-95-04					4	
Bruening Rock Prod.		Lustina	NW 22-95-04					4	
Kuhlman Const.		Doerring	SE 05-95-05					4	
Kuhlman Const.		Olson	SE 19-93-04					4	
Kuhlman Const.		Eberhardt	NW 27-93-05	2.72	2			4	1-5
Kuhlman Const.		Eberhardt	NW 27-93-05				4	4	1-8
Kuhlman Const.		Wellman	NW 25-92-06					4	
Kuhlman Const.		Kruse	NW 17-92-04	2.73	2				5-11
Kuhlman Const.		Kruse	NW 17-92-04				4	4	2-12
Roverud Const.		Costigan	SE 23-92-04		X		4	4	
Kuhlman Const.		Fassbinder	SW 09-92-03		2		4	4	2-6
Hartman		Hartman	NW 29-91-06		2		4	4	1-4
Roverud Const.		Morarend	Sen. 35-92-03	2.67	2				1-8
Roverud Const.		Morarend	Sen. 35-92-03				4	4	1-10
Kuhlman Const.		Bage	SW 18-91-02					4	
Kuhlman Const.		Joy Springs	19-91-06		2		4	4	1-3
Kuhlman Const.		Tucker	SW 18-91-05					4	
Kuhlman Const.		Madlom	NE 04-91-06					4	
Hartman		Hartman	NW 28-91-06					4	
J. F. Pavlovec		Meisgier	31-93-05					4	
		SAND & GRAVEL							

CLAYTON COUNTY cont.

Kuhlman Const.
Kuhlman Const.
Wendling Quarries
Kuhlman Const.

SAND & GRAVEL

Fairground
Joy Springs
Edgewood
Thurn

LOCATION

NE 26-93-05
SW 19-91-06
SW 33-91-05
Cen. 25-92-05

SpGr

2.66

2.65

CLINTON COUNTY

Alpha Cr. Stone
Alpha Cr. Stone
Alpha Cr. Stone
Alpha Cr. Stone
Alpha Cr. Stone
Alpha Cr. Stone
Alpha Cr. Stone
Alpha Cr. Stone
Alpha Cr. Stone
Alpha Cr. Stone
Manikowski
Manikowski

CRUSHED STONE

Bluhr
Behr
Shaffton
Shaffton
Clark
Goose Lake
Teeds Grove
Toronto
Lyons
Kings
Manikowski
Barber

NW 08-83-2E
SW 02-81-3E
NE 11-80-5E
NE 11-80-5E
SW 08-83-4E
SW 22-83-5E
SW 03-83-6E
NW 29-82-1E
NW 18-82-7E
NW 06-80-3E
NE 28-83-5E
NE 35-81-03E

2.69

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CRAWFORD COUNTY

G. A. Finley
Clark Const.
G. A. Finley
G. A. Finley
G. A. Finley
G. A. Finley

SAND & GRAVEL

Deloit
Meyer
Hanigan
Wescott
Denison

NE 13-84-39
SE 05-83-38
SE 07-83-38
15, 16-83-39
NW 28-83-39

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DALLAS COUNTY

Gendler Stone

CRUSHED STONE

Bear Creek

SW 23-78-29

2.67

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2.68

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DAVIS COUNTY

Mott Quarries
Douds Stone

CRUSHED STONE

Hootman
Lewis

NE 15-70-12
W½ 02-69-12

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DECATUR COUNTY

Sargent Quarries
Sargent Quarries
Sargent Quarries
Sargent Quarries
Gondringer-Barnett
Sargent Quarries

CRUSHED STONE

Grand River
DeKalb
Decatur City
Elk Chapel
Davis City

NW 22-70-27
NW 29-70-26
SW 21-70-26
SE 32-69-26
NE 12-68-27
NE 04-67-26

2.67

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*Limitations: 1½ Top Size

DECATUR COUNTY cont.

Grand River Quarries
Sargent Quarries
Sargent Quarries

SAND & GRAVEL

Grand River
Decatur City
Woodward

LOCATION

SW 15-70-27
SE 32-69-26
SW 20-69-26

SpGr**DELAWARE COUNTY**

Kuhlman Const.
Kuhlman Const.
Kuhlman Const.
Wendling Quarries
Wendling Quarries
Kuhlman Const.
Kuhlman Const.
Wendling Quarries
Wendling Quarries
Wendling Quarries
Dyersville S&G
Wendling Quarries
Wendling Quarries
Wendling Quarries
Dyersville Rdy Mix
Wendling Quarries
Wendling Quarries
Wendling Quarries
Wendling Quarries

CRUSHED STONE

Sedgewick No. 2
Sedgewick No. 2
Sedgewick No. 1
Edgewood
Edgewood
Tibbot
Tibbot
Bahl Qr.
Logan
White
Logan
Deutmeyer
Forrestville
Wulfekuhle
Schulte Prop.
Dyersville
Grief
Truman House
Goedkin
Lanning

SW 36-90-06
SW 36-90-06
SW 36-90-06
Cen. 04-90-05
Cen. 04-90-05
SW 23-90-04
SW 23-90-04
SE 22-89-06
09, 10-88-05
NW 02-88-04
09, 10-88-05
SW 13-88-03
NW 22-90-06
NW 23-90-04
16, 21-89-03
SE 23-89-03
NE 18-87-03
NE 35-88-04
NW 22-89-03
NE 19-87-04

2.63

2.69

2.70

2.73

SAND & GRAVEL

Kuhlman Const.
Wendling Quarries
Dyersville Rdy Mix
Wendling Quarries
Wendling Quarries
Wendling Quarries
Martin Marietta
Wendling Quarries

Sedgewick
Tegler
Dyersville
Arnold
Logan
Hoth
Ferguson
Hard Scrabble

SW 36-90-06
NE 36-89-03
NW 26-89-03
NE 07-88-05
SW 10-88-05
NW 22-90-06
NE 32-89-06
NE 25-87-04

2.65

2.65

2.66

2.64

DES MOINES COUNTY

Kaser Const.
Kaser Const.
Kaser Const.
Raid Quarries
Raid Quarries
Raid Quarries
Raid Quarries
Raid Quarries
Raid Quarries
Raid Quarries
Raid Quarries

CRUSHED STONE

Leonhard
Leonhard
Leonhard
Heinold
Heinold
Sullivan Slough
Sullivan Slough
Nelson
Nelson
McLaughlin
Sullivan Slough

SE 01-71-04
SE 01-71-04
SE 01-71-04
SW 10-79-04
SW 10-69-04
SE 30-69-02
SE 30-69-02
NE 26-72-02
NE 26-72-02
NE 12-71-04
SE 30-69-02

2.64

2.66

2.65

2.64

2.62

2.64

Raid Quarries

SAND & GRAVEL

Spring Pit

SW 36-69-03

2.66

DICKINSON COUNTY

Conc. Sand & Matls.
Conc. Sand & Matls.
Rohlin Const.
Hummel S&G

SAND & GRAVEL

Milford
Milford
Rohlin
Fostoria

11, 12-98-37
11, 12-98-37
NE 06-98-36
NE 26-98-37

2.71

2.66

P C C	P C C	A C 'A'	A C 'B'	B E D S
		4	4	
		4	4	
		4	4	
2				3
		4	4	1-3
		4	4	1-3
2				2-7
		4	4	1-7
2		4	4	1-5
		4	4	1-7
		5	5	
2		5	5	3-8
		4	4	1-8
2		5	5	2-6
			5	
			5	
			5	
			5	
			5	
			5	
			5	
			5	
			5	
	X	4	4	
	X	4	4	
	X	4	4	
	X	4	4	
	X	4	4	
		4	4	
		4	4	
		4	4	
		4	4	
2				15
1		5	5	20
		4	4	15-18
1				13-15
		5	5	13-16
1		5	5	6
2				1B
2				21-24
			4	15-24
			5	
			4	2-3
		4	4	
	X	4	4	
		4	4	
2		4	4	
	X			
		4	4	
X	X	4	4	

*Limitations: Gradation maximum = AASHTO 57

DUBUQUE COUNTY	CRUSHED STONE	LOCATION	SpGr					
Dubuque Stone Prod.	Dubuque Stone	26, 27-90-2E	2.70	2				2-8
Dubuque Stone Prod.	Dubuque Stone	26, 27-90-2E				4	4	1-15
Wendling Quarries	Sundheim	SE 32-89-2W	2.70	2		4	4	5-8
Wendling Quarries	Sundheim	SE 32-89-2W						1-8
Wendling Quarries	Klein	NW 33-90-1E	2.65	2		4	4	3-4
Wendling Quarries	Klein	NW 33-90-1E						1-4
Dubuque S&G	Brown	NW 33-89-2E		2				8-9
Dubuque S&G	Brown	NW 33-89-2E				3	3	2-9
Wendling Quarries	Mar-Jo Hills	SE 05-88-3E	2.67	2		3	3	2-5
Wendling Quarries	Mar-Jo Hills	SE 05-88-3E						1-10
Wendling Quarries	Kurt	N½ 35-87-2W	2.74	2		4	4	1-2
Wendling Quarries	Mattloch	NW 09-90-1E						
Wendling Quarries	Meloy	22, 23-87-1E						
Wendling Quarries	Schlitcher	SE 11-89-2W						
Beecher Quarry L.T.D.	Simpson Furnace	SW 07-89-2E						
Wendling Quarries	Johns Creek	SW 36-88-2W						
Allied Stone	Arnsdorf	SE 25-87-2E						
Wendling Quarries	Thole	NW 21-87-2E						
Dubuque S&G	Kemp	NE 09-89-1E						
Dyersville	Reiter	NW 28-87-1W		X				
Beecher	Hermson	NE 33-90-2W						
	SAND & GRAVEL							
Dubuque S&G	Nine Mile ls.	NE 24-88-3E	2.66		X	4	4	
Dyersville S&G	Sauser Prop.	NW 36-87-2W	2.66			4	4	
EMMET COUNTY	SAND & GRAVEL							
Estherville S&G	Estherville	NE 03-99-34	2.66	2		3	3	
Estherville	Estherville	NE 03-99-34			X			
Emmet County	Twito	SW 06-98-33				4	4	
Rohlin Const.	Fry	N½ 21-100-34				4	4	
Maudlin Const.	Voetman	Cen. 17-100-32				4	4	
Rohlin Const.	Armstrong	SW 25-99-31				4	4	
Rohlin Const.	England	NE 28-98-32				4	4	
FAYETTE COUNTY	CRUSHED STONE							
Niemann Const.	Eldorado	SW 17-95-08	2.69	2		5	5	4-6
Niemann Const.	West Union	SW 11-94-08				5	5	
Niemann Const.	Maryville	SE 24-91-07	2.71	2				1-2
Niemann Const.	Maryville	SE 24-91-07				4	4	1-4
Fayette Co.	County	Cen. 21-95-07					5	
(Niemann Const.)								
Niemann Const.	Corbin	NW 21-93-07					5	
Niemann Const.	Patterson	SW 20-94-07				4	4	
Pattison & Son	Templeton	SE 29-93-08				5	5	
Hewitt Bros.	Maynard	NE 23-92-09					5	
Niemann Const.	Fairbank	SW 28-91-10				4	4	
Niemann Const.	Yearous	SW 19-93-08				5	5	
Hewitt	Brackway	SW 35-95-10				4	4	1-7
Niemann Const.	Waucoma	NW 25-95-10		X			5	2-4
Niemann Const.	Vrzek	05-95-10				4	4	1-5
	SAND & GRAVEL							
Riverside Prod.	Clermont	SW 34-95-07	2.66		X	4	4	
Niemann Const.	Reisner	SW 34-95-10	2.66		X	4	4	
Niemann Const.	Alpha	NW 03-94-10	2.66		X	4	4	
Carlson Matls. Co.	Durscher	NW 03-94-07				4	4	
Zupka S&G	Randalia	NW 29-93-09				4	4	
Niemann Const.	Wadena	NE 25-93-07	2.66		X	4	4	

			SpGr	P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
FAYETTE COUNTY cont.	SAND & GRAVEL	LOCATION						
Kuhlman	Strawberry Point	SE 13-91-07	2.65		X	4	4	
Niemann Const.	Levican	NE 09-91-09				4	4	
Kuhlman	Bassett	SE 11-91-07	2.65		X	4	4	
FLOYD COUNTY	CRUSHED STONE							
Heckman-Reynolds	Carville/Bunn	SW 23-95-15		2		5	5	1-5
Greene Ls. Co.	Maxin	SE 07-94-17				5	5	
Greene Ls. Co.	Joblas	SW 07-94-15				5	5	
Heckman & Reynolds	Warnholtz	SW 09-96-16				5	5	
Carlson Mtls.	Carlson	SE 25-97-17				4	4	9-14
	SAND & GRAVEL							
Greene Ls. Co.	Rockford	SE 15-95-18	2.68	2		3	3	
Greene Ls. Co.	Rockford	SE 15-95-18	2.67		X			
Greene Ls. Co.	La Costa	SE 27-96-16	2.66	2		4	4	
Greene Ls. Co.	La Costa	SE 27-96-16	2.65		X			
Iowa Road Builders	Lent	SW 08-96-16				4	4	
Maudlin Const.	Jones	SE 22-95-18				4	4	
Greene Ls.	Brackel	NE 17-94-17				4	4	
Carlson	Carlson	SE 25-97-17			X	4	4	
FRANKLIN COUNTY	CRUSHED STONE							
Weaver Const.	Dows	SE 30-91-22				4	4	1-4
Weaver Const.	Dows	SE 30-91-22				4	4	7-10
Weaver Const.	Hibness	SE 22-91-20				4	4	2-9
Weaver Const.	Hibness	SE 22-91-20	2.60	2		4	4	1-4
Greene Ls. Co.	Phillips	NE 13-91-20				4	4	
Greene Ls. Co.	Miller	NE 13-91-19					4	
Weaver Const.	Heitland	NW 18-91-19					5	
	SAND & GRAVEL							
Hallet Const.	Geneva	S½ 07-91-19	2.68	2		4	4	
Hallet Const.	Geneva	07-91-19	2.66		X			
Maudlin Const.	Pitsor	SW 05-92-20				4	4	
Greene Ls. Co.	Markham	NW 21-91-20				4	4	
Maudlin Const.	Stuck	SW 30-91-22				4	4	
Heitland Const.	Heitland	SW 18-91-19		2	X	4	4	
FREMONT COUNTY	CRUSHED STONE							
Kaser Const.	Thurman	NW 23-70-43 SW 14-70-43					4	
	SAND & GRAVEL							
Hallett Const.	Payne Jct.	NE 32-68-43	2.63		X	4	4	
GREENE COUNTY	SAND & GRAVEL							
F&D	Beazor	SW 2-83-31	2.70	2		4	4	
F&D	Beazor	SW 2-83-31	2.68		X			
F&D	Farm	SW 04-83-31	2.65		X	4	4	
F&D	Finch	NW 20-83-30				4	4	
F&D	Armstrong	SE 26-83-30				4	4	
Maudlin Const.	Pound	NW 20-84-29				4	4	
Maudlin Const.		NW 05-84-29					4	
GRUNDY COUNTY	CRUSHED STONE							
Greene Ls.	Reiken	NE 15-89-18				4	4	2-5
	SAND & GRAVEL							
Maudlin Const.	Holland	SE 28-88-17					4	

			SpGr	P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
GUTHRIE COUNTY	SAND & GRAVEL	LOCATION						
Maudlin Const.	Monteith	SW 29-79-30				4	4	
Schildberg Const.	Smith	NW 34-79-30				4	4	
Buttler Const.	Bayard	NE 22-81-32				4	4	
HAMILTON COUNTY	CRUSHED STONE							
Weaver Const.	Moberly Mine	SW 18-89-25	2.62	2		4	4	11-12
Weaver Const.	Moberly Mine	SW 18-89-25	2.58	2		4	4	12-13
Weaver Const.	County Line	SE 34-86-23				4	4	
	SAND & GRAVEL							
Maudlin Const.	Luppes	NW 15-88-24				4	4	
Maudlin Const.	Ahart	NE 19-89-25				4	4	
Maudlin Const.	Forrester	NE 31-89-25				4	4	
HANCOCK COUNTY	CRUSHED STONE							
Martin Marietta	Garner	SE 11-95-24	2.77	2		4	4	1-4
Martin Marietta	Garner	SE 11-95-24				4	4	6-7
Weaver Const.	Garner	NW 13-95-24	2.78	2		4	4	1-4
Weaver Const.	Garner	NW 13-95-24				4	4	6-7
Ft. Dodge Ls.	Garner	NE 14-95-24				4	4	1-4
Ft. Dodge Ls.	Garner	NE 14-95-24				4	4	6-7
	SAND & GRAVEL							
Welp & McCarten	Mezvinski	SW 07-97-24				4	4	
Herman Bunns	Hutchins	NE 27-96-26				4	4	
Welp & McCarten	Klemme	25, 26-95-24				4	4	
Maudlin Const.	Kirshbaum	SW 18-97-24				4	4	
Sankey S&G	Sankey	N 1/2 34-96-26	2.69	2	X	4	4	
LaHarve Const.	Crystal Lake	SW 01-97-25					4	
LaHarve Const.	Torkelson	SW 22-97-23				4	4	
HARDIN COUNTY	CRUSHED STONE							
Weaver Const.	Alden	SW 17-89-21	2.58	2		4	4	1-3
Weaver Const.	Alden	NW 20-89-21	2.58	2		4	4	1-3
Martin Marietta	Gifford	NW 04-86-19					5	
	SAND & GRAVEL							
Welden Bros.	Iowa Falls	NW 20-89-20	2.64	2		4	4	
Welden Bros.	Iowa Falls	NW 20-89-20	2.66		X	4	4	
Open	Lyman	NE 28-89-20				4	4	
Maudlin Const.	Seivert Prop.	SW 23-87-21				4	4	
Maudlin Const.	McCormick	27-87-20				4	4	
Weaver	Janssen	SE 34-89-20	2.67		X	4	4	
Hardin Aggregates	Gifford	SW 31-87-19	2.65		X	4	4	
Maudlin Const.	Nerhing	NW 28-87-20				4	4	
Maudlin Const.	Iowa Falls	NW 17-89-20				4	4	
Maudlin Const.	Klein	SW 35-89-20				4	4	
Maudlin Const.		NW 32-88-22				4	4	
HARRISON COUNTY	CRUSHED STONE							
Clark Ls. Co.	Logan	17, 19-79-42	2.65	1		5	5	25
Schemmer Ls.	Logan	17, 19-79-42	2.64	1		5	5	25
	SAND & GRAVEL							
Clark Ls. Co.	Woodbine	NW 23-80-42	2.69	2		3	3	
Clark Ls. Co.	Woodbine	NW 23-80-42	2.66		X			
Clark Ls. Co.	Pisgah	NW 23-81-44	2.66		X	4	4	
Schemmer Ls.	Logan	SE 08-79-42	2.65		X	3	3	
HENRY COUNTY	CRUSHED STONE							
Douds Stone	Smith	SE 17-71-06	2.60	2		4	4	13-16 A*

*Limitations: Gradation maximum = AASHTO 57

P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
2		4	4	8-9
2			5	1-3
		4	4	1-4
		4	4	8-9
2		4	4	7-10
2		4	4	9-10
		4	4	1-6
2		4	4	10-12
			4	5-6
			5	
			5	
			5	
	X	4	4	
	X	4	4	
	X	4	4	
		4	4	
		4	4	
		4	4	
2		5	5	2-8
		4	4	1
		5	5	
1				4-18
2				4-8
2				10-18
1				2-5
		5	5	5-24
X	X	4	4	
		4	4	
	X	4	4	
		4	4	
	X	4	4	
		4	4	
		5	5	
2		5	5	
		4	4	1
2				1-2
		4	4	3-6
		4	4	1-6
2				2-4
		4	4	1-7
2				1
		4	4	1-2
		4	4	7-8
2		4	4	1-5
			5	
			5	
		4	4	1-10
		5	5	

				P C C	P C C	A C 'A'	A C 'B'	B E D S
				C A	F A			
						4	4	
						4	4	
				2		3	3	
					X			
				2		3	3	
					X			
					X	4	4	
					X	4	4	
					X	4	4	
				2		3	3	
					X			
							5	
				2		4	4	
					X			
					X	4	4	
							5	
						4	4	7
							X	
				2		5	5	3-9
				2		5	5	23-24
				2		5	5	2-17
						4	4	7-17
						4	4	6-10
						4	4	18-21
					X	4	4	
				2		4	4	1-5
				2		4	4	1
				2				1-5
						4	4	1-6
				2				4-5
						4	4	1-6
				2				3
						4	4	1-3
				2		4	4	1-2
							5	
				2		4	4	
					X	4	4	
					X	4	4	
					X	4	4	
					X	4	4	
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					X	4	4	
					X	4	4	
					X	4	4	
					X	4	4	
					X	4	4	
					X	4	4	
					X	4		

***Limitations: 1¼" Top size**

					P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
KEOKUK COUNTY									
Kaser Corp.	CRUSHED STONE	LOCATION	SpGr						
Kaser Corp.	Keswick	NW 21-77-12	2.61	2					13-15 *
Kaser Corp.	Keswick	NW 21-77-12					4	4	13-18
Kaser Corp.	Ollie	01, 74-11	2.66	2					13-18
Kaser Corp.	Ollie	01, 74-11	2.66	2					28-30
Kaser Corp.	Ollie	01, 74-11					4	4	6-30
Martin Marietta	Delta	SW 15-75-13						5	
KOSSUTH COUNTY									
Maudlin Const.	SAND & GRAVEL								
Dole Const.	Dole	SE 08-98-30					4	4	
Maudlin Const.	Whittemore	NW 36-96-29					4	4	
Maudlin Const.	Irvington	NW 16-95-30					4	4	
Rohlin	Seneca	NE 36-95-29					4	4	
P & M	So. Algona	N½ 06-98-30					4	4	
Dole Const.	Kubicek	SE 35-95-27					4	4	
		NE 11-94-29						4	
LEE COUNTY									
Raid Quarries	CRUSHED STONE								
Raid Quarries	Hawkeye	NE 10-68-06					4	4	22-27
Raid Quarries	Franklin	NE 25-68-06	2.49	2					12 *
Raid Quarries	Franklin	NE 25-68-06					4	4	12-14
Raid Quarries	Argyle	SE 18-66-06					4	4	13-17
Raid Quarries	Donnellson	SE 05-67-06	2.60	1			4	4	10-13
	SAND & GRAVEL								
Raid Quarries	St. Francisville	29, 32-66-06					4	4	
Raid Quarries	Vincennes	SE 32-66-06	2.65			X	4	4	
LINN COUNTY									
Alpha Cr. Stone	CRUSHED STONE								
	Betenbender/	SW 03-86-06		2			4	4	8-10
	Coggon								
Alpha Cr. Stone	Plower	SE 36-86-06	2.62	1					1-11
Alpha Cr. Stone	Plower	SE 36-86-06					4	4	1-10
B. L. Anderson	Robins	NE 21-84-07		2			4	4	3 **
Alpha Cr. Stone	Bowser/	SW 29-84-05		2			4	4	6-7
	Springville								
B. L. Anderson	Washburn	SE 09-86-07					X	X	
B. L. Anderson	Morgan Creek	SE 22-83-08					X	X	
Alpha Cr. Stone	Sweeting	NW 18-85-08						5	
B. L. Anderson	Alice	NW 08-85-07						5	
Martin Marietta	South Cedar Rapids	NE 15-82-06	2.61	2					2-9 **
Martin Marietta	South Cedar Rapids	NE 15-82-06					4	4	2-14
B. L. Anderson	Mitchell/Lisbon	NW 24-82-05	2.71	2			4	4	1
Crawford Stone	Lee Crawford	NW 23-83-08						5	
B. L. Anderson	Palo	SW 18-84-08						X	
	SAND & GRAVEL								
Alpha Cr. Stone	Sweeting	NE 18-85-08	2.64			X	4	4	
Alpha Cr. Stone	Park	NE 15-85-06	2.66			X	4	4	
B. L. Anderson	Spaight	NE 27-84-08	2.65			X	4	4	
Alpha Cr. Stone	East Marion	NE 36-84-06	2.65			X	4	4	
Milan Freese	Freese	Gen. 11-83-08	2.65			X	4	4	
Kings Conc. Co.	Kings	07, 17-83-07					4	4	
Martin Marietta	Baird	NW 02-82-07	2.64	2			4	4	
		SW 35-83-07	2.65						
Martin Marietta	Schultz	SW 29-82-06				X	4	4	
B. L. Anderson	Ivanhoe	NW 29-82-05	2.66			X	4	4	
B. L. Anderson	Central City	NE 10-85-06				X	4	4	
B. L. Anderson	Coggon	NW 11-86-06	2.65			X	4	4	

*Limitations: Gradation maximum = AASHTO 57

**Limitations: 1½" Top size

LOUISA COUNTY

River Products
River Products

River Products
River Products

LYON COUNTY

Pettengill Conc.
& Gravel
Pettengill Conc.
& Gravel
Hogan
Maudlin Const.
Maudlin Const.
Maudlin Const.
Maudlin Const.
Maudlin Const.
Rock Valley S&G
Hogan

MADISON COUNTY

Gendler Stone
Gendler Stone
Schildberg Const.
Gendler Stone
Martin Marietta
Sargent Quarries
Gendler Stone
Gendler Stone
Sargent Quarries
Sargent Quarries
Sargent Quarries

MAHASKA COUNTY

Kaser Const.

MARION COUNTY

Kaser Const.
Hess & Sons

Pella Const.
Pella Const.
Van Dusseldorp S&G
Kaser Const.
Kaser Const.
Kaser Const.
Kaser Const.

MARSHALL COUNTY

Martin Marietta
Martin Marietta
Kenyon
Kenyon

CRUSHED STONE

Columbus Jct.
Columbus Jct.

SAND & GRAVEL

McKean
Fredonia

SAND & GRAVEL

Rock Rapids

Rock Rapids

Klondike
Little Rock
Doon

Winter

CRUSHED STONE

Early Chapel
North River
Stanzel
Eyerly
Earlham
Winterset
Winterset
'92' Quarry
Jones Creek
Pammel
Peru

SAND & GRAVEL

Stanzel Center

CRUSHED STONE

Langstraat

SAND & GRAVEL**CRUSHED STONE**

Durham Mine
Melcher Field

SAND & GRAVEL

Dingman
Grootveld
Pella Field
Harvey Field
Harvey Field
New Harvey
New Harvey

CRUSHED STONE

Ferguson
Ferguson
LeGrand
LeGrand

LOCATION

NW 03-74-05
NW 03-74-05

17-75-04
SW 17-75-04

NW 33-100-45

NE 09-99-45
SW 10-99-45
17-100-45
SE 24-100-49
NW 21-99-48
NW 03-99-43
21-98-45
SW 24-98-46
NW 17-99-48
SE 18-99-43

NW 10-76-29

NW 11-76-29

SW 05-75-29

SE 12-76-29

SW 04-77-28

SE 27-76-27

SE 27-76-27

NW 34-76-27

NE 27-75-27

08-75-28

NW 10-74-27

06-75-29

SW 29-76-15

NE 08-75-18

SW 21-74-21

NW 33-76-18

NW 28-76-18

SE 34-76-18

SE 33-76-18

SE 33-76-18

NW 12-75-18

NW 12-75-18

SW 05-82-17

SW 05-82-17

NW 01-83-17

SW 36-84-17

SpGr

2.56

2.69

2.67

2.61

2.64

2.61

2.65

2.66

2.66

2.66

2.67

2.66

2.67

2.67

2.69

P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
2		4	4	16-19 16-21
	X	4 X	4 X	
2	X	3	3	
		3	3	
		4	4	
		4	4	
		4	4	
		4	4	
		3	3	
		3	3	
		4	4	
		4	4	
1		5	5	15
1		5	5	15
		5	5	15
1		5	5	15
			5	25
			5	25
			5	25
			5	25
			5	25
		5	5	15
			5	25
		4	4	
2		5	5	16
2		4	4	88-95
	X	4	4	
	X	4	4	
	X	4	4	
2		4	4	
	X			
2	X	4	4	
	X			
2		4	4	81-7 1-18 1-7 8-27
		4	4	
		4	4	

MARSHALL COUNTY cont.

Martin Marietta
Martin Marietta
Hallett Const.

SAND & GRAVEL

Marshalltown
Marshalltown
Bromley

LOCATION

SW 29-84-17
SW 29-84-17
NE 02-84-20

SpGr

2.66
2.66

MILLS COUNTY

Kaser Corp.
Kaser Corp.

CRUSHED STONE

Folsom
Malvern

NW 29-73-43
NW 05-71-41

MITCHELL COUNTY

Falk Const.
Welp & McCarten
Falk Const.
Falk Const.
Falk Const.
Greene Ls. Co.
Falk Const.
Falk Const.
Falk Const.

CRUSHED STONE

Duenow
Brownsville
Wilde
Osage/Cedar
Dixon
Wrage
Staff
Lesch
Riceville

SE 08-99-17
SE 30-99-15
NE 07-98-18
SW 35-98-17
NE 05-97-15
SE 17-97-17
NW 17-97-17
SW 12-97-17
SW 30-99-15

2.78

SAND & GRAVEL

Falk Const.
Falk Const.

Osage
St. Ansgar

NW 01-97-17
SW 36-99-18

2.64

MONONA COUNTY

Peters Const.
Peters Const.
Peters Const.
Peters Const.
Hargrave Const.
Midwest Paving

SAND & GRAVEL

Rodney
Rodney
Castana
Castana
Hargrave
Onawa

02, 11-85-44
02, 11-85-44
04, 05-84-43
04, 05-84-43
NE 31-85-46
SW 09-82-45

2.69
2.67
2.69
2.67

MONROE COUNTY

Kaser Const.

CRUSHED STONE

Eddyville

NE 02-73-16

MONTGOMERY COUNTY

Kaser Const.
Kaser Const.

CRUSHED STONE

Stennett
New Grant

NE 27-73-38
NE 05-73-36

SAND & GRAVEL

Hallett Const.
G. A. Finley
Hallett Const.

Red Oak
Elliott
Villisca

NE 07-71-38
13-73-38
SE 33-71-36

2.64

MUSCATINE COUNTY

Wendling Quarries
Wendling Quarries

CRUSHED STONE

Moscow
Moscow

NW 08-78-02
NW 08-78-02

2.68
2.69

SAND & GRAVEL

Wendling Quarries
Wendling Quarries
Acme Fuel & Matls.
Acme Fuel & Matls.

Flater
Atalissa
Acme
Acme

NW 36-78-03
NW 20-78-02
W½ 22-76-02
W½ 22-76-02

2.66
2.64
2.67

O'BRIEN COUNTY

Faber Const.
Rabe S&G
Maudlin Const.
Maudlin Const.
Maudlin Const.
Maudlin Const.
Maudlin Const.

SAND & GRAVEL

Faber
Rabe
Sheldon
Sanborn
Paulina

SW 19-97-42
SW 15-94-41
SE 20-97-42
SW 16-97-42
SE 29-97-42
SW 04-96-41
SE 23-95-41

2.67
2.65

P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
2		4	4	
	X X	4	4	
			5 5	
2		4	4	4-5
		4	4	1-5
			5	
		4	4	11-14
			5	
		4	4	6-11
		4	4	6-11
		5	5	
		4	4	1-5
	X	4	4	
		4	4	
2		3	3	
	X			
2		3	3	
	X			
		4	4	
		4	4	
			5	
			5	
			5	
	X	4	4	
		4	4	
		4	4	
2		5	5	11-15
2		4	4	21-24
	X	4	4	
	X	3	3	
2		4	4	
	X			
	X	4	4	
	X	4	4	
		4	4	
		4	4	
		4	4	
		4	4	

O'BRIEN COUNTY cont.

Maudlin Const.
Maudlin Const.
Maudlin Const.
Faber & Son
Floyd River S&G
Floyd River S&G

SAND & GRAVEL

Primghar
Sheldon
Sheldon
Sheldon

LOCATION

SE 01-94-41
17-95-3
NW 04-95-39
SE 19-97-42
NW 11-97-42
NW 11-97-42

SpGr

2.69
2.66

OSCEOLA COUNTY

Maudlin
Rehms & Stewart
Hallett Const.
Hallett Const.
Maudlin Const.
Maudlin Const.
Hogan Const.
Maudlin Const.
Maudlin Const.
Faber

SAND & GRAVEL

Ashton
Ocheyedan
Ashton
Ashton
Thomas

NE 28-98-42
NE 23-99-40
SW 28-98-42
SW 28-98-42
NW 36-99-40
SE 15-99-40
NE 12-98-42
NW 31-100-40
NE 11-99-42
19-100-42

2.64
2.69
2.67

PAGE COUNTY

Gendler Stone

CRUSHED STONE

Braddyville Qr.

15, 22-67-36

SAND & GRAVEL

Hallett Const.
G. A. Finley
G. A. Finley
Jack Stanley
Jack Stanley

Essex

Shenandoah
Shenandoah
Shenandoah
Shenandoah

SW 13-70-39
NW 17-69-39
NW 17-69-39
SW 08-69-30
SW 08-69-30

2.64
2.63
2.65
2.64

PALO ALTO COUNTY

Bogges Matls.
Bogges Matls.
Bogges Matls.
P & M Stone
Maudlin Const.

SAND & GRAVEL

Bogges
Bogges
Dorweiller
West Bend

35, 36-96-33
35, 36-96-33
SW 05-94-31
NW 08-94-31
NW 10-97-33

2.70
2.66
2.66

PLYMOUTH COUNTY

Higman S&G
Higman S&G
L. G. Everist
L. G. Everist
Peters Const.
Peters Const.
Maudlin Const.
Maudlin Const.
Maudlin Const.
Hyman & Sons

SAND & GRAVEL

Akron
Akron
Akron
Akron
Corwin
Corwin
Remsen
Aspen
Kingsley
Kingsley

NW 01-92-49
NW 01-92-49
NE 01-92-49
NE 01-92-49
S½ 31-90-46
S½ 31-90-46
SE 03-92-44
NE 11-92-49
NE 35-90-44
NE 13-90-44

2.68
2.67
2.69
2.66
2.69
2.67

POCAHONTAS COUNTY

Hallett Const.
Hallett Const.
Midwest Ls.
Midwest Ls.

CRUSHED STONE

Gilmore City
Gilmore City
Gilmore City
Gilmore City

NE 36-92-31
NE 36-92-31
SW 25-92-31
SW 25-92-31

2.64

SAND & GRAVEL

Maudlin Const.
Maudlin Const.
P & M Stone
Maudlin Const.
P & M Stone

Palmer
Havelock
Egle
Zeaman

N½ 13-90-31
NE 35-93-33
NE 02-90-31
NE 07-91-33
SE 13-92-31

P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
2	X	4 4 4 4 4	4 4 4 4 4	
2	X X	3 4 3 4 4 4 4 4	3 4 3 4 4 4 4 4	
				5
2	X	4 3	4 3	
2	X	3	3	
2	X X	3 3	3 3	
2	X	3	3	
2	X	3	3	
2	X	4	4	
2	X	4 3 4 4	4 3 4 4	
2		5 4	5 4	1-3 2-3
2		5 4	5 4	1-5 1E-3
		4 4 4 4 4	4 4 4 4 4	
	X	4	4	

POLK COUNTY

Martin Marietta
 Martin Marietta
 Hallett Const.
 Hallett Const.
 Kenyon Const.
 Hallett Const.
 Hallett Const.
 Martin Marietta
 Martin Marietta
 Hallett Const.
 West Des Moines
 Sand Co.
 Peters Const.
 Peters Const.
 Peters Const.

SAND & GRAVEL

Johnston
 Johnston
 Denny/Johnston
 Denny/Johnston
 SE 22nd
 East Des Moines
 East Des Moines
 West Des Moines
 West Des Moines
 Schroeder
 Flint
 Gooch/Avon
 Army Post Rd.
 Army Post Rd.

LOCATION

NW 17-79-24
 NW 17-79-24
 07, 08-79-24
 07, 08-79-24
 SW 12-78-24
 SE 18-78-23
 SE 18-78-23
 15, 22-78-25
 15, 22-78-25
 SW 29-81-25
 SE 29-78-25
 27-78-23
 SE 30-78-25
 SE 30-78-25

SpGr

2.72
 2.67
 2.73
 2.66

 2.68
 2.67
 2.68
 2.67
 2.67

 2.69
 2.67

P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
2		4	4	
	X			
2		4	4	
	X			
2		4	4	
2		4	4	
	X			
2		4	4	
	X			
		4	4	
	X	4	4	
2		4	4	
	X	3	3	
	X			
1				25
		5	5	20,25
		5	5	26
			4	
			4	
			4	
			4	
		4	4	
2		4	4	
	X			
		4	4	
		4	4	
2		4	4	10-13
1		5	5	24
		4	4	
			5	
2		4	4	
	X			
2		4	4	
	X			
		4	4	
		4	4	
		4	4	
		4	4	
2		4	4	1-19 *
2		4	4	1-10 *
2				2-9 *
		4	4	1-22
2		5	5	12-24 *

POTTAWATTAMIE COUNTY

Schildberg Const.
 Schildberg Const.
 Schildberg Const.
 Schildberg Const.
 Schildberg Const.
 Schildberg Const.
 Schildberg Const.

CRUSHED STONE

Crescent
 Crescent
 Crescent
 Silver City
 South Macedonia
 K & S
 North Macedonia Qr.

34, 35-76-44
 34, 35-76-44
 34, 35-76-44
 SE 31-74-41
 NE 28-74-40
 NW 28-74-40
 SW 22-74-40

2.65

SAND & GRAVEL

G. A. Finley
 G. A. Finley
 G. A. Finley
 Schildberg Const.
 Schildberg Const.

Avoca
 Oakland
 Oakland
 Crescent
 Hively

29-77-39
 SW 23-75-40
 SW 23-75-40
 NE 34-76-44
 11-75-44

2.65
2.65**POWESHIEK COUNTY**

Malcom Stone
 Kaser Const.

CRUSHED STONE

Malcom Mine
 New Sharon

SE 04-80-15
 NE 35-78-16

2.61

SAND & GRAVEL

County Pit

Gilbraeth Pit

NW 18-78-15

RINGGOLD COUNTY

Martin Marietta

CRUSHED STONE

Adams/Watterson

SE 19-67-29

SAC COUNTY

Hallett Const.
 Hallett Const.
 Hosteng S&G
 Hosteng S&G
 Mauer Const.
 Maudlin Const.
 Mauer Const.
 Mauer Const.

SAND & GRAVEL

Sacton
 Sacton
 Auburn
 Auburn
 Sac City
 Lake View
 Lake View
 Wilson

S½ 08-86-36
 S½ 08-86-36
 NW 02-86-35
 NW 02-86-35
 NW 36-88-36
 SE 05-86-36
 NW 12-87-36
 NW 29-87-36

2.70
2.68
2.70
2.66**SCOTT COUNTY**

LeClaire Quarries
 LeClaire Quarries
 LeClaire Quarries
 LeClaire Quarries
 Linwood Stone Co.

CRUSHED STONE

Dannatt/McCausland
 Liberty
 LeClaire
 LeClaire
 Linwood Mine

W½ 17-80-4E
 NE 33-80-1E
 NW 35-79-5E
 NW 35-79-5E
 SW 13-77-2E

2.70
2.67

*Limitations: 1½" Top size

SCOTT COUNTY cont.

LeClaire Quarries
LeClaire Quarries

SAND & GRAVEL

Schlofeldt
Koester

LOCATION

SW 17-80-5E
NW 17-80-2E

SpGr

2.66

SHELBY COUNTY

G. A. Finley
G. A. Finley

SAND & GRAVEL

Harlan
Harlan

NE 36-79-39

NE 36-79-39

2.67

2.65

SIOUX COUNTY

Rock Valley Gr. Co.
Rock Valley Gr. Co.

SAND & GRAVEL

Van Zee
Van Zee
Vanderesch
Hudson/Ostevcamp
Sioux Center
Sioux Center
Hawarden
Hawarden
Hawarden
Sheldon
County

NW 20-97-46

NW 20-97-46

SW 20-96-47

SE 07-96-47

NW 33-95-45

NW 33-95-45

22, 27-95-48

22, 27-95-48

NE 01-95-48

NW 34-97-43

34-97-44

2.68

2.68

2.69

2.68

2.68

2.70

2.67

2.69

STORY COUNTY

Sargent Quarries
Martin Marietta

CRUSHED STONE

Cooks
Roberson

SW 24-84-24

Cen. 24-84-24

SAND & GRAVEL

Christensen
Christensen
Boyd
Peterson

SE 22-84-24

SE 22-84-24

NE 21-82-22

NW 13-84-24

2.69

2.68

TAMA COUNTY

B. L. Anderson
B. L. Anderson
B. L. Anderson

CRUSHED STONE

Montour
Montour
Montour

NW 09-83-16

NW 09-83-16

NW 09-83-16

2.63

2.63

SAND & GRAVEL

Flint
LeGrand
Clutier

NW 03-82-15

NE 16-83-16

SE 11-84-14

15-83-16

2.65

Manatts, Inc.
Maudlin Const.
Maudlin Const.
McCoy

TAYLOR COUNTY

Gendler Stone
Gendler Stone

CRUSHED STONE

Bedford
102

SW 25-68-34

NE 32-68-34

UNION COUNTY

Schildberg Const.

CRUSHED STONE

Thayer

NE 35-72-28

SAND & GRAVEL

Afton/lacena
Thayer
Thayer

NE 16-72-29

NE 22-72-28

NE 22-72-28

2.69

2.68

VAN BUREN COUNTY

Douds Stone
Douds Stone
Douds Stone
Douds Stone
Raid Quarries
Raid Quarries
Douds Stone
Douds Stone

CRUSHED STONE

Douds Mine
Douds Mine
Douds Mine
Selma/Nedrow
Farmington
Farmington
Gardner
Winsell

SE 25-70-11

SE 25-70-11

SE 25-70-11

NE 19-70-11

NE 05-67-08

NE 05-67-08

NW 16-70-11

SE 22-69-11

2.50

2.69

2.47

P C C	P C C	A C 'A'	A C 'B'	B E D S
	X	4 4	4 4	
2	X	4	4	
2		4	4	
2	X	3	3	
X	X	4	4	
2		4	4	
	X	4	4	
2	X	3	3	
2		3	3	
		4	4	
		4	4	
		4	4	1-8
		4	4	1-11
1	X	4	4	
		4	4	
		X	X	
2				1-7
2				13-18
		4	4	4-7
	X	4	4	
		4	4	
		4	4	
		4	4	
			4	
			5	
			5	
		4	4	
2		4	4	
	X			
2				10-15
		4	4	14-7
		5	5	15-4
		4	4	23-27
2		5	5	3
2		4	4	16-17 *
		4	4	22-24
		4		3-4

*Limitations: Gradation maximum = AASHTO 57

J. F. Pavlovce
J. F. Pavlovce
J. F. Pavlovce
Bruening Rock Prod.
Roverud Const.
Roverud Const.
Bruening Rock Prod.
Roverud Const.
Roverud Const.
Roverud Const.
Roverud Const.
Bruening Rock Prod.
Bruening Rock Prod.
J. F. Pavlovce
Bruening Rock Prod.
Roverud
J. F. Pavlovce
J. F. Pavlovce

Madison
Shop
Huey
Wepler
Ask
Bruevold
Thompson
Pilgrim
Nordness
Locust
Young
Borseth
Sersland/Smorstad
Love
Bullerman
Estrem
Horseshoe Bend
Protovin

Cen. 18-98-08
SW 17-98-08
SE 17-98-10
NE 05-98-08
NE 27-98-07
NW 20-98-07
Cen. 29-98-09
NE 14-98-09
SE 09-97-08
01-98-08
SW 32-99-07
NE 05-97-08
SE 09-97-07
NW 30-96-10
SE 14-96-09
SW 04-97-7
21-97-9
SE 18-97-10

2.64

P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
2		5	5 5 5 5 5 5 5 5 5 5 5 5 5 5	
	X	5	5	
	X	5	5	
	X	5	5	
	X	4	4	
	X	4	4	
	X	4	4	
2		3	3	
X	X	4	4	
		3	3	
		3	3	
		3	3	
	X	3	3	
2		4	4	6-7
X		4	4	2-3
2		4	4	2-10
2		4	4	2-3
X		4	4	15-20
		4	4	5-7
		5	5	3-7
	X	4	4	
	X	4	4	
		4	4	
		4	4	
		4	4	
	X	3	3	
		4	4	
		4	4	
		4	4	
		4	4	

Peters Const.
Peters Const.
Maudlin Const.
Maudlin Const.
Maudlin Const.
Maudlin Const.
Persinger S&G

Correctionville
Correctionville
Moville
Correctionville
Anthon

Smithland

Welp & McCarten
Welp & McCarten
Welp & McCarten
Martin Marietta
Martin Marietta
Martin Marietta
Weaver
Falk Const.

Northwood/Harris
Kuenen
Northwood
Randall
Fertile
Fertile
Hanson
Shields

Martin Marietta
Martin Marietta
Maudlin Const.
Falk Const.
Falk Const.

Randall R.M.
Fertile
Knutson
Hanlontown
Moretz

Nelson S&G
P & M Stone
Maudlin Const.
Maudlin Const.
Maudlin Const.

Nelson
Bjorson/Amosson
McCollough/Leshner
Denger
Meineke

ILLINOIS	CRUSHED STONE	LOCATION	SpGr	P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
Raid Quarries	Biggsville Henderson County	17-10-4W	2.62	2			4 4 4	6 * 6-8 12-17 1-5
Dubuque S&G	McCarthy Joe Daviess County	NW 34-29-2W	2.68	2		4	4	
Midway Stone Co.	Midway Rock Island County	SW 16-18-2E				4	4	
Moline Consumers	McMahn Whiteside County	NE 11-20-2E						
Allied Stone Prod.	Van Druff Is./ Milan	14-17-2W	2.69	2		5	5	7-13
Material Services Raid Quarries	Lightweight Agg. Dallas City Henderson Co.	SE of Ottawa SW 36-08-7W	2.66	2		4	4 4 4	5-6 * 2-3
Moline Consumers	Cleveland Henry County	SW 31-17-2E				4	4	
	SAND & GRAVEL							
Moline Consumers	Cordova (Albanin Plant)	SW 34-21-2E	2.65	2		3	3	
General S&G	Milan Rock Island County	16-17-2W	2.67 2.67	2	X	3	3	
Illinois S&G Moline Consumers	Barstow Rock Island County	South Beloit NE 34-18-1E			X	4 4	4 4	
Nelson S&G	Sand Whiteside County	SW 29-21-7E				4	4	
Dubuque S&G	Coyle Jo Daviess County	S½ 34-29-2W	2.66		X	4	4	
MINNESOTA	CRUSHED STONE							
Roverud Const.	New Albin Qr. Houston County	NW 09-101-04					5	
Roverud Const.	Pool Hill Qr. Houston County	SW 33-101-04					5	
Roverud Const.	Otterness Qr. Fillmore County	E½ 11-101-08	2.75	2		3	3	1-2
New Ulm Quartzite J. L. Shiely	Quartzite St. Cloud	SW 35-110-31W				2 2	2 2	
Roverud Const.	Newburg Fillmore Co.	NE 08-101-08				4	4	4-5
	SAND & GRAVEL							
Hallett Const.	Hallett's NE of Luverne	SE 36-103-45	2.70 2.69	2		4	4	
Cooney Const.	New Albin Houston County	09-101-04			X	4	4	
Hector Const.	New Albin Houston County	NW 23-101-04				4	4	
Hodgman & Sons	Hodgman Jackson County	NE 34-101-34				4	4	
Willet S&G	Willet Jackson County	SW 25-102-35				4	4	
Maudlin Const.	Maudlin Nobles County	SE 26-101-42				4	4	

*Limitations: Gradation maximum = AASHTO 57

					P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
MISSOURI									
Kaser Const.	CRUSHED STONE Kahoka Clark County	LOCATION NE 17-65-07	SpGr				4	4	14-16
Sargent Quarries	Mercer Mercer County	NW 22-66-23						5	
Gendler Stone	Turner Prop./ Hopkins	SW 31-67-34 Nodaway Co.						5	
Sargent Quarries	Allendale/Lamb Worth County	NW 03-66-30						5	
Sargent Quarries	Allendale/King Worth County	SE 34-66-30						5	
Sargent Quarries	Dr. Jeffereis Harrison County	NW 03-66-26					5	5	
Carter-Waters Raid Quarries Raid Quarries Raid Quarries Trap Rock Matls. & Engr. Company	Expanded Shale Bethany Route 'C' Ridgeway Traprock Iron Mountain	New Market, Mo. Harrison Davies Co. Harrison Co. St. Francis County					3 5 5 5 3	3 5 5 5 3	
	SAND & GRAVEL								
Kaser Const.	Wayland, Mo.	SW 21-65-06 Clark Co.	2.66			X	4	4	
Raid Quarries	Albany	Gentry Co. Sec. 27-63-31	2.67	2			4	4	
Raid Quarries	Gallitin	Cen. 16-59-27 Davies Co.					4	4	
Hallett Const.	Livesay	SE 36-65-26 Harrison Co.	2.66 2.64	2		X	4	4	
Turner Quarries Raid Quarries	Clearmont Quinn	SW 34-66-37 Mo. River Howard Co.				X	4	4	
NEBRASKA									
	CRUSHED STONE								
Hopper Bros.	Weeping Water Cass County	92, 03-10-11E	2.69	2			5	5	10
Kerford Ls., Co.	Weeping Water Mine Cass County	S½ 34-11-11E	2.69	2			5	5	10
Hopper Bros.	Nehawka Cass County	SE 20-10-13E						5	
Hopper Bros.	Waldo Cass County	SE 16-10-12E						5	
Ft. Calhoun Stone	Quarry Ft. Calhoun	SE 01-17-12E					5	5	
	SAND & GRAVEL								
Lyman-Richey S&G	Cullom No. 5	SW 26-13-12E Cass County	2.62	V	X		4	4	
Lyman-Richey S&G	Waterloo No. 10	SE 17-15-10E Douglas Co.	2.62	V	X		4	4	
Hartford S&G	Valley	NW 18-15-10E Douglas Co.	2.62	V	X		4	4	
Lyman-Richey S&G	Valley No. 11	SE 35-16-09E Douglas Co.	2.62	V	X		4	4	
Hartford S&G	Valley	SW 22-16-09E Douglas Co.	2.62	V	X		4	4	
Lyman-Richey S&G	Waterloo No. 14	NE 20-15-20E Douglas Co.	2.62		X		4	4	

NEBRASKA cont.

Lyman-Richey S&G

Lyman-Richey S&G

Lyman-Richey S&G

Western S&G

Hartford S&G

Hobbs S&G

SAND & GRAVEL

Oreapolis No. 8

Elliott

Richfield

Ashland

LaPlatte

Cedar Creek

LOCATION

SE 34-13-13E

Cass County

SW 36-13-13E

Cass County

SE 26-13-12E

Sarpy County

NW 24-13-09E

Saunders Co.

SW 27-13-13E

Sarpy Co.

32-13-12E

Cass County

SpGr

2.62

SOUTH DAKOTA

L. G. Everist

Concrete Matls.

CRUSHED STONE

Quartzite

Dell Rapids

Quartzite

Sioux Falls

SW 10-104-49

Minnehaha Co.

18-101-50

2.64

SAND & GRAVEL

Boyer/Hawarden

Boyer Materials

Hawarden

Midwest Paving

Richland

Midwest Paving

Canton

Concrete Matls.

10-95-48

Union County

SW 15-95-48

Union County

SW 20-92-49

Union County

17-89-48

Lincoln County

2.68

WISCONSIN

Bryan Dresser Co.

Chicago-Northwestern

E. Kramer

E. Kramer

CRUSHED STONE

Traprock

Quartzite

Shockley Hill

Oswald

Dresser, Wisc.

Rock Springs,

Wisc.

21-08-03

NW 05-07-05

SAND & GRAVEL

Prairie du Chien

Prairie S&G

Vogt Farm

Dubuque S&G

24-74-07

Crawford Co.

17-90-3E

Grant Co.

2.67

2.67

2.67

2.67

P C C A	P C C F A	A C 'A'	A C 'B'	B E D S
V	X	4	4	
X	X	4	4	
X	X	4	4	
X	X	4	4	
V	X	4	4	
X				
2		2	2	
		2	2	
2		4	4	
		4	4	
		4	4	
	X	4	4	
		3	3	
		2	2	
			5	
			5	
2		3	3	
	X			
2		3	3	
	X			